

Name: \_\_\_\_\_

**pb1103: Factoring when  $a = \text{prime}$  (v7)**

1. Factor the expression  $5x^2 + 37x + 42$

$$(5x + 7)(x + 6)$$

2. Factor the expression  $5x^2 + 6x - 8$

$$(5x - 4)(x + 2)$$

3. Factor the expression  $5x^2 + 39x + 28$

$$(5x + 4)(x + 7)$$

4. Factor the expression  $2x^2 + 17x - 9$

$$(2x - 1)(x + 9)$$

5. Factor the expression  $11x^2 + 105x + 54$

$$(11x + 6)(x + 9)$$

6. Factor the expression  $5x^2 + 2x - 16$

$$(5x - 8)(x + 2)$$

7. Factor the expression  $11x^2 + 97x + 72$

$$(11x + 9)(x + 8)$$

8. Factor the expression  $7x^2 + 71x + 72$

$$(7x + 8)(x + 9)$$

9. Factor the expression  $5x^2 + 3x - 14$

$$(5x - 7)(x + 2)$$

10. Factor the expression  $7x^2 + 47x - 72$

$$(7x - 9)(x + 8)$$